

3.2.5 Cameron Run Group Summary

3.2.5.1 Cameron Run Watershed

Description. Cameron Run Watershed is a large watershed, with approximately 49 miles of stream assessed. The main stem drains through the City of Alexandria prior to re-entering Fairfax County and draining into the Potomac River.

Habitat. The habitat assessment results for Cameron Run Watershed are summarized by stream in Table 3-25. Habitat scores for each reach are depicted in Figure 3-31. Based on a length weighted habitat score of 92 (Table 3-2), Cameron Run Watershed is one of the poorest watersheds, compared to the rest of the County. Approximately 6 miles of stream were categorized as having “very poor” habitat conditions, 23 miles as “poor,” 17 miles as “fair,” and 2 miles as “good.”

CEM. Based on the CEM evaluations approximately three quarters of the channels assessed in Cameron Run Watershed are in Evolutionary Stage 3 (Table 3-3), with most of the remainder of the watershed in Stage 4. Figure 3-32 summarizes the CEM results for Cameron Run Watershed.

Infrastructure. The infrastructure inventory resulted in 1015 inventory points. The most significant problems were related to a utility line, which was given an impact score of 15, and several pipes, ditches, erosional areas that were given impact scores of 10. The infrastructure inventory results are summarized in Table 3-26. Figures 3-33, 3-34, 3-35, 3-36, and 3-37 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ ditches; and dumps, obstructions, and utilities, respectively.

3.2.5.2 Four Mile Run Watershed

Description. Four Mile Run Watershed is a large watershed with very little stream channel in the County, with approximately 1 miles of stream assessed. The majority of the watershed is contained within the City of Alexandria and Arlington County. Four Mile Run eventually drains to the Potomac River.

Habitat. The habitat assessment results for Four Mile Run Watershed are summarized by stream in Table 3-27. Habitat scores for each reach are depicted in Figure 3-31. Based on a length weighted habitat score of 96 (Table 3-2), Four Mile Run Watershed is in the lower range of quality, compared to the rest of the County. Approximately 0.3 mile of stream was categorized as having “poor” habitat conditions, 0.5 mile as “fair.”

CEM. Based on the CEM evaluations approximately 60 percent of the channels assessed in Four Mile Run Watershed are in Evolutionary Stage 4 (Table 3-3), with most of the remainder of the watershed in Stage 3. Figure 3-32 summarizes the CEM results for Four Mile Run Watershed.

Infrastructure. The infrastructure inventory resulted in 32 inventory points. The most significant problems were related to two utilities and a buffer, which was given impact scores of 6. The infrastructure inventory results are summarized in Table 3-28. Figures 3-33, 3-34, 3-35, 3-36, and 3-37 summarize impact scores for the erosion problems; deficient buffers; crossings; pipes/ ditches; and dumps, obstructions, and utilities, respectively.

TABLE 3-25
Habitat Assessment Summary for Cameron Run Watershed
Fairfax County Stream Physical Assessment

Stream	Linear Feet (Percent) of Stream					Total
	Very Poor	Poor	Fair	Good	Excellent	
Backlick Run	9,764 (18.83)	25,937 (50.01)	16,159 (31.16)	0 (0.00)	0 (0.00)	51,861
Cameron Run	11,282 (70.68)	0 (0.00)	4,680 (29.32)	0 (0.00)	0 (0.00)	15,962
Holmes Run	3,950 (4.87)	42,328 (52.17)	24,390 (30.06)	10,465 (12.90)	0 (0.00)	81,133
Indian Run	838 (4.60)	4,956 (27.23)	12,408 (68.17)	0 (0.00)	0 (0.00)	18,202
Pike Branch	0 (0.00)	11,344 (65.71)	5,920 (34.29)	0 (0.00)	0 (0.00)	17,264
Poplar Branch	0 (0.00)	2,011 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	2,011
Poplar Branch Trib to Indian Run	0 (0.00)	1,428 (24.41)	4,422 (75.59)	0 (0.00)	0 (0.00)	5,850
Tributary to Backlick Run	0 (0.00)	1,696 (41.02)	2,439 (58.98)	0 (0.00)	0 (0.00)	4,135
Tributary to Cameron Run	0 (0.00)	0 (0.00)	976 (100.00)	0 (0.00)	0 (0.00)	976
Tributary to Holmes Run	0 (0.00)	814 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	814
Tributary to Indian Run	0 (0.00)	1,314 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	1,314
Tributary to Tripps Run	2,928 (26.64)	8,064 (73.36)	0 (0.00)	0 (0.00)	0 (0.00)	10,992
Tripps Run	1,043 (9.12)	5,562 (48.63)	4,833 (42.25)	0 (0.00)	0 (0.00)	11,438
Turkeycock Creek	0 (0.00)	9,053 (53.50)	7,869 (46.50)	0 (0.00)	0 (0.00)	16,923
Turkeycock Run	0 (0.00)	9,188 (50.00)	7,303 (39.74)	1,886 (10.26)	0 (0.00)	18,377
Watershed Total	29,806 (11.59)	123,696 (48.08)	91,399 (35.53)	12,351 (4.80)	0 (0.00)	257,252

TABLE 3-26
Infrastructure Assessment Summary for Cameron Run Watershed
Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	>10	Total
Deficient Buffers	4	2	18	23	28	107	38	38	11	3	0	272
Crossings	97	50	49	22	16	11	3	0	0	1	0	249
Ditches and Pipes	192	38	40	15	8	11	2	0	7	2	4	319
Erosion	0	1	0	2	4	18	14	28	8	3	3	81
Head Cut	0	0	0	1	2	1	0	0	0	0	1	5
Obstruction	3	1	7	10	13	6	8	5	4	2	1	60
Utility	2	0	0	8	3	3	6	3	0	2	2	29
Total	298	92	114	81	74	157	71	74	30	13	11	1015










TABLE 3-27
Habitat Assessment Summary for Four Mile Run Watershed
Fairfax County Stream Physical Assessment

Stream	Linear Feet (Percent) of Stream					Total
	Very Poor	Poor	Fair	Good	Excellent	
Four Mile Run	0 (0.00)	1,654 (100.00)	0 (0.00)	0 (0.00)	0 (0.00)	1,654
Long Branch	0 (0.00)	0 (0.00)	2,422 (100.00)	0 (0.00)	0 (0.00)	2,422
Watershed Total	0 (0.00)	1,654 (40.57)	2,422 (59.43)	0 (0.00)	0 (0.00)	4,076

TABLE 3-28
 Infrastructure Assessment Summary for Four Mile Run Watershed
Fairfax County Stream Physical Assessment

Impact Score	0	1	2	3	4	5	6	7	8	9	10	>10	Total
Deficient Buffers	0	0	0	0	0	5	1	0	0	0	0	N/A	6
Crossings	0	7	0	1	0	0	0	0	0	0	0	N/A	8
Ditches and Pipes	14	0	0	0	0	0	0	0	0	0	0	N/A	14
Erosion	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Head Cut	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Obstruction	0	0	0	0	0	0	0	0	0	0	0	N/A	0
Utility	0	0	0	0	0	2	2	0	0	0	0	0	4
Total	14	7	0	1	0	7	3	0	0	0	0	0	32



-  Fairfax County Boundary
 Habitat Rating
 Excellent
 Good
 Fair
 Poor
 Very Poor
 No Habitat Assessment
 Lakes and Ponds
 Watersheds

**WATERSHED GROUP:
CAMERON RUN**



0 3000 6000 9000 12000 Feet



Figure 3-31
Habitat Assessment
Cameron Run Group
Fairfax County Stream Physical Assessment





- Inventory Types
- Cross Section
 - ⚡ Head Cut
- CEM Stage
- Not Assigned
 - 1
 - 2
 - 3
 - 4
 - 5
- Legend
- Fairfax County Boundary
 - Lakes and Ponds
 - Streams
 - Watersheds

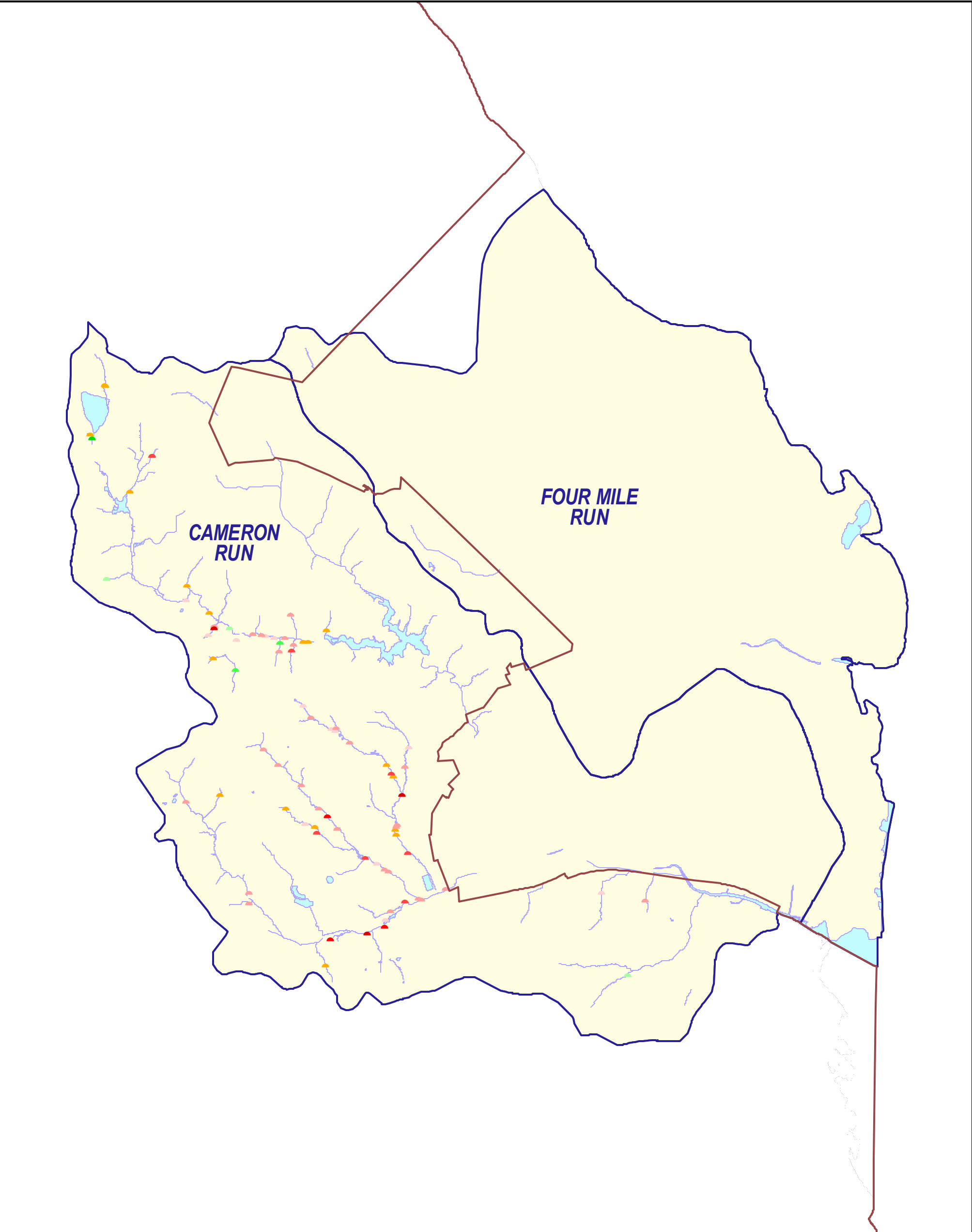
**WATERSHED GROUP:
CAMERON RUN**



0 3000 6000 9000 12000 Feet

Figure 3-32
CEM Stages
Cameron Run Group
Fairfax County Stream Physical Assessment





Erosion by Impact Score

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:
CAMERON RUN



0 3000 6000 9000 12000 Feet



Figure 3-33
Erosion Impacts
Cameron Run Group
Fairfax County Stream Physical Assessment





Deficient Buffer by Impact Score

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:
CAMERON RUN



0 3000 6000 9000 12000 Feet

Figure 3-34
Deficient Buffer Impacts
Cameron Run Group
Fairfax County Stream Physical Assessment





Inventory Type
+ Crossing

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

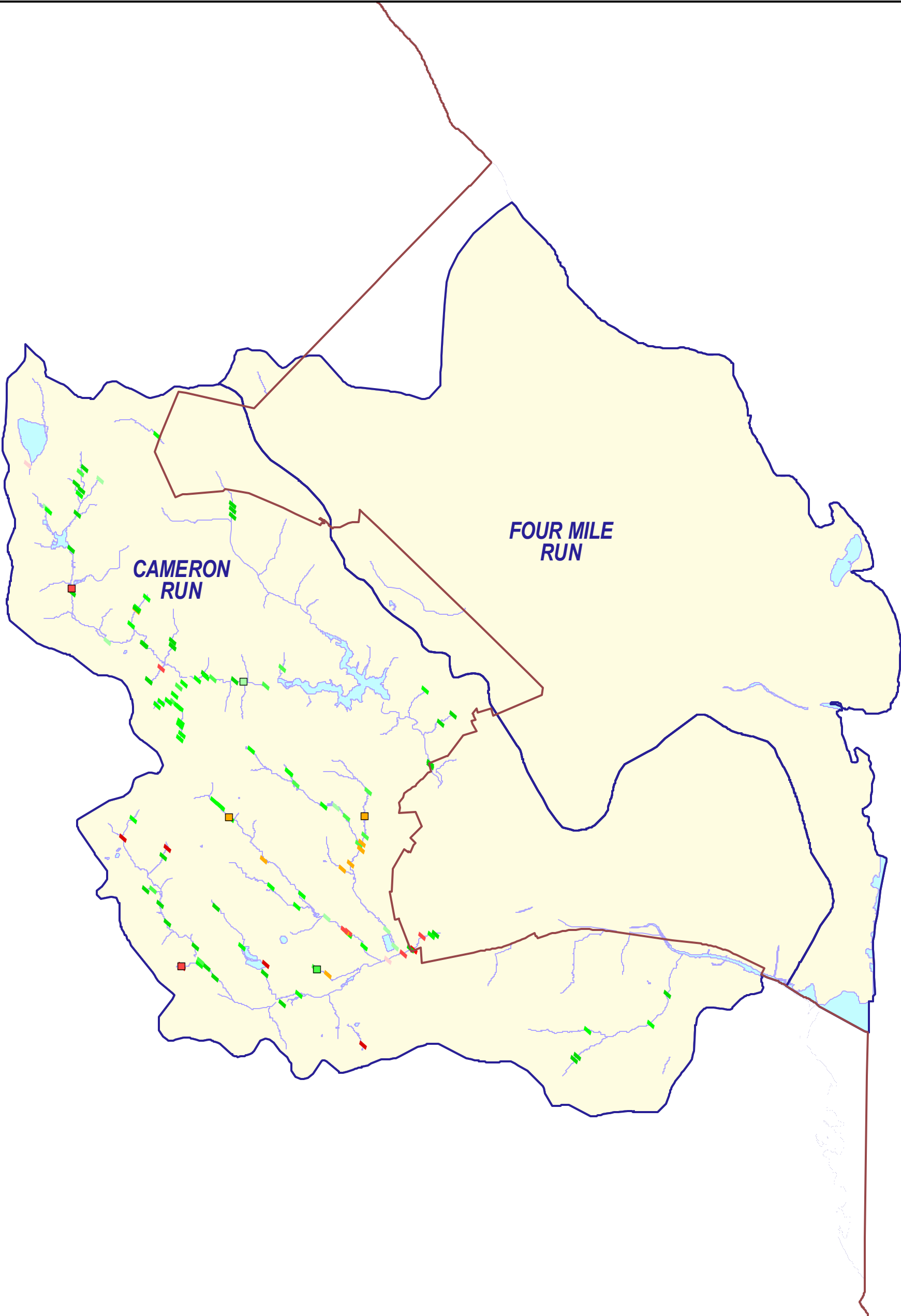
WATERSHED GROUP:
CAMERON RUN



0 3000 6000 9000 12000 Feet

Figure 3-35
Crossings
Cameron Run Group
Fairfax County Stream Physical Assessment





Pipe / Ditch by Impact Score

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

- Fairfax County Boundary
- Lakes and Ponds
- Streams
- Watersheds

WATERSHED GROUP:
CAMERON RUN

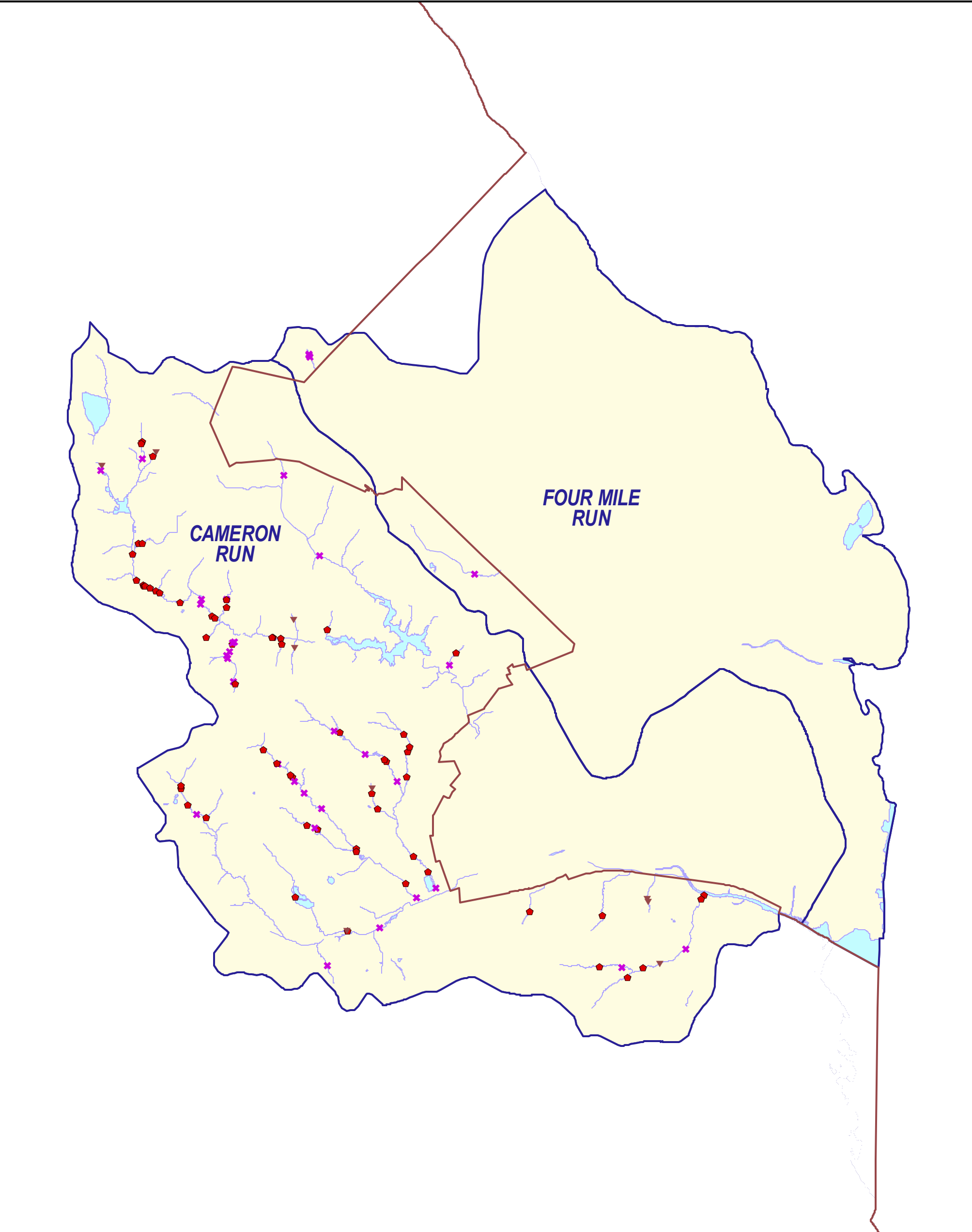


0 3000 6000 9000 12000 Feet



Figure 3-36
Pipe and Ditch Impacts
Cameron Run Group
Fairfax County Stream Physical Assessment





Inventory Types

- ▼ Dump
- ◆ Obstruction
- * Utility

- ▭ Fairfax County Boundary
- ▭ Lakes and Ponds
- ▭ Streams
- ▭ Watersheds

WATERSHED GROUP:
CAMERON RUN



0 3000 6000 9000 12000 Feet

Figure 3-37
Dumps, Obstructions, and Utilities
Cameron Run Group
Fairfax County Stream Physical Assessment

